

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	4	"4125278".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/29 15:54
S2	1	"10550256"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/29 15:55
S3	109	("6068015" "4951707" "6089410" "3808738" "4138215" "4268478" "4270567" "4281684" "4299315" "4305702" "4340337" "4348945" "4350396" "4357912" "4359205" "4383504" "4398450" "4408791" "4422472" "4448552" "4449491" "4449444" "4450795" "4475870" "4490097" "4514868" "4555221" "4573932" "4787560" "4793315" "4831827" "4834132" "4838307" "4896688" "4938254" "4941554" "4951790" "4967643" "4995856" "5010733" "5052896" "5188604" "5201707" "5211611" "5277144" "5285807" "5299921" "5310388" "5326237" "5348189" ).pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 17:36
S6	279	137/856.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 17:48
S7	205	S6 and @ay<="2005"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 17:49
S8	18	S6 and (elastomeric or fluoroelastomer or perfluoroelastomer or silicone)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 18:22

S9	2	"6089272".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/11/06 09:00
S10	5	("6089272").URPN.	USPAT	OR	ON	2007/11/06 09:12
S11	15	("20020133124"   "4712583"   "5025829"   "5575279"   "5727594"   "5746414"   "5782918"   "5992461"   "6036171"   "6079432"   "6089272"   "6112368"   "6156025"   "6168137"   "6245048").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/06 09:16
S12	1	"20020159900"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/06 09:34
S13	2	"20020159900"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 09:34
S14	5	"20050072946"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 09:48
S15	2	"5585011".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 09:55
S16	2	"5617632".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 09:59
S17	2	"5660728".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 09:59
S18	2	"5839467".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 09:59
S19	5	("6089272").URPN.	USPAT	OR	ON	2007/11/06 11:05

S20	35	(["2462189"   "2497906"   "2758609"   "2908283"   "3176712"   "3190496"   "3508576"   "3599657"   "3710942"   "3807430"   "3827456"   "4003398"   "4141379"   "4188978"   "4241756"   "4334786"   "4355639"   "4593720"   "4712583"   "4986310"   "5025829"   "5069243"   "5269771"   "5273546"   "5305795"   "5617897"   "5697770"   "5727594").PN.	US_PGPUB; USPAT; USOOR	OR	ON	2007/11/06 11:17
S21	353	137/856.ccls.	US_PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 16:54
S22	199	S21 and @ay<="2003"	US_PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 16:55
S23	8	(["2144662"   "3807445"   "4550749"   "4762149"   "4838262"   "4925371"   "5676531").PN.	US_PGPUB; USPAT; USOOR	OR	ON	2007/11/06 17:31
S24	6	("5971723").URPN.	USPAT	OR	ON	2007/11/06 17:35
S25	353	137/856.ccls.	US_PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 07:16
S26	199	S25 and @ay<="2003"	US_PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 07:16
S27	1	S26 and ((pump near head) and assembly).ccls.	US_PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 07:16
S28	4	"4118652".pn.	US_PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 07:28

S29	3	"2588319".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 07:29
S31	1	S26 and ((pump near head) and assembly)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 07:30
S32	2	S26 and ((pump near head))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 07:30
S35	35	S26 and (outlet and inlet and assembly and valve)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 07:33
S36	36	("0771327"   "1276478"   "1634949"   "1669889"   "1679012"   "1780121"   "2021085"   "2160401"   "2417246"   "2682280"   "2908287"   "3241748"   "3370786"   "3998571"   "4065237"   "4524806"   "4565507"   "4633825"   "4867650"   "4955797"   "4978285"   "5016669"   "He32651").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/07 08:42
S37	34	("5213125").URPN.	USPAT	OR	ON	2007/11/07 09:19
S39	19	("20030089409"   "3123096"   "3270771"   "4182355"   "5213125"   "5609476"   "5617897"   "5727594"   "5771935"   "5775887"   "5875819"   "5971723"   "6044862"   "6089272"   "6390130"   "6579075"   "6823891").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/07 09:20
S40	353	137/856.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 11:37

S41	199	S40 and @ay<="2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 11:37
S42	573	417/559.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 11:40
S43	117	S42 and @ay<="2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 11:40
S44	8	S43 and (elasto\$4 or diene or fluroelastom\$4 or perfluoroelasto\$4 or silicone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 12:51
S45	6	S43 and ((membrane or diaphragm) near valve)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 12:55
S46	2	"5934305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 15:10
S47	2	"6314990".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 15:10
S48	4	"4437490".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 15:15
S49	2	"5213125".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 15:23

S50	2215	417/566,571,559.clas.	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 15:46
S51	556	S50 and @ay<="2003"	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 15:48
S52	111	S51 and (valve and (membrane or diaphragm) and inlet and outlet)	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 15:49
S53	19	S52 and (silicone or diene or fluoroelastomer or perfluoroelastomer)	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 15:51
S54	5	S52 and (stroke near length)	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 16:03
S55	34	("3153347"   "3203357"   "3354830"   "3462073"   "3771907"   "3801232"   "4231721"   "4272225"   "4321018"   "4502846"   "4507062"   "4519792"   "4523902"   "4527961"   "4537565"   "4746278"   "4776771"   "4808092"   "4856966"   "4936758"   "5074757"   "5074763"   "5154589"   "5165869"   "5213485"   "5261792"   "5275541"   "5330330"   "5378119"   "5395217").PN.	US-PGPUB; USPAT; USOCP	OR	ON	2007/11/08 16:09
S56	100899	"417".clas.	US-PGPUB; USPAT; USOCP	OR	ON	2007/11/08 16:09
S57	24021	S56 and @ay<="2003"	US-PGPUB; USPAT; USOCP	OR	ON	2007/11/08 16:09
S58	479	S57 and ((diaphragm or membrane) near valve)	US-PGPUB; USPAT; USOCP	OR	ON	2007/11/08 16:11
S59	34	S58 and (pump near head)	US-PGPUB; USPAT; USOCP	OR	ON	2007/11/08 16:12

S60	22	("20020081866"   "2980032"   "3386388"   "3424091"   "3715174"   "4305702"   "5171132"   "5219278"   "5259737"   "5394840"   "5499909"   "5718567"   "5725363"   "5759014"   "6033191"   "6042345"   "6390791"   "6408878"   "6520753").PN.	US-PGPUB; USPAT; USOOR	OR	ON	2007/11/08 16:24
S61	32	S58 and (stroke near length)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/08 16:39
S62	3	S58 and (valve with limited width stroke)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/08 17:34
S63	479	S57 and ((membrane or diaphragm ) near valve)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/08 17:38
S64	14	S57 and ((membrane or diaphragm or flapper ) near valve).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/08 17:48
S65	72	S57 and ((membrane or diaphragm or flapper ) near valve).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/08 17:54
S66	100899	"417".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 07:11
S67	24021	S66 and @ay<= "2003"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 07:11
S68	621	S67 and (((pump or compressor) near head) and valve and inlet and outlet)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 07:11
S70	621	S68 and @ay<= "2003"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 07:12
S71	621	S68 and @ay<= "2005"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 07:12
S72	246	S68 and (diaphragm or membrane)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 07:13
S73	1	"5934305".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 07:39
S74	8	("5934305").URPN.	USPAT	OR	ON	2007/11/09 07:39

S75	42	({"0550730"   "1359006"   "1593519"   "2646071"   "2899981"   "2908109"   "3060959"   "3176712"   "3516766"   "3568712"   "3790311"   "3891000"   "4277955"   "4369808"   "4369812"   "4427351"   "4431388"   "4513784"   "4531543"   "4560330"   "4580604"   "4744737"   "4759696"   "4826409"   "4904165"   "5062779"   "5141420"   "5379799"   "5407335"   "5411384"   "5593294"   "5655898"   "5934305").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 07:51
S76	2	"2593315".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 08:34
S77	2	"2603062".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 08:35
S78	2	"2782934".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 08:36
S79	9	({"2223944"   "3807445"   "3889710"   "3954121"   "4037784"   "4141379"   "4142677"   "4222407").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 08:39
S80	1	"3889710".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 12:11
S83	2	"1412473".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 12:12
S84	2	"1506012".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 12:13
S85	2	"2547377".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 12:13
S86	2	"3342866".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 12:13
S87	1	"3664371".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 12:14
S88	3	"3664371".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/09 12:14
S89	4	"3807443".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/09 12:16

S90	3	"3954121".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/09 12:16
S91	5	"3228418".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/09 12:18
S92	4	"3519012".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/09 12:18
S93	4	"3807445".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/09 12:20
S94	2	"6823891".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/09 12:20
S95	1	("6823891").URPN.	USPAT	OR	ON	2007/11/09 12:21
S96	19	("20030089409"   "3123096"   "3270771"   "4182355"   "5213125"   "5609476"   "5617897"   "5727594"   "5771935"   "5775887"   "5875819"   "5971723"   "6044862"   "6089272"   "6390130"   "6579075"   "6823891").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 12:22
S97	19	("20030089409"   "3123096"   "3270771"   "4182355"   "5213125"   "5609476"   "5617897"   "5727594"   "5771935"   "5775887"   "5875819"   "5971723"   "6044862"   "6089272"   "6390130"   "6579075"   "6823891").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 12:42
S98	1	"5213125".pn.	USPAT	OR	ON	2007/11/09 12:42
S99	2	"5213125".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/09 12:42

S100	34	("5213125").URPN.	USPAT	OR	ON	2007/11/09 12:42
S101	1	"6464056".pn.	USPAT	OR	ON	2007/11/09 12:58
S102	102	("1660588"   "2004929"   "2026777"   "2775141"   "2899981"   "2913928"   "2922319"   "3229550"   "3230795"   "3251244"   "3350961"   "3361008"   "3393582"   "3407599"   "3490312"   "3686976"   "3724289"   "3748928"   "3752280"   "3835730"   "3894446"   "3923113"   "3987689"   "4012968"   "4031917"   "4041804"   "4091901"   "4177831"   "4253491"   "4258588"   "4263824"   "4272993"   "4388196"   "4445400"   "4493387"   "4548096"   "4601359"   "4606428"   "4630505"   "4644822"   "4650028"   "4679463"   "4714129"   "4719998"   "4727966"   "4730514"   "4732052"   "4821604"   "4867012"   "4876921"   "4884470"   "4905808"   "4909371"   "4919006"   "4924989"   "4957473"   "4960011"   "4966268"   "4974471"   "5005131"   "5087228"   "5189930"   "5197583"   "5213125"   "5299986"   "5310388"   "5320586"   "5358455"   "5536215"   "5595214"   "5611746"   "5702319"   "5735764"   "5749801"   "5827145"   "5888163"   "5938556"   "5941788"   "5964126"   "5967285"   "6056658"   "6112874"   "6145644"   "6155947"   "6168545"   "6176800"   "6216841").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 12:59
S103	1007929	((diaphragm or membrane) with recess\$3 recess)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 13:00
S104	13027	"417".clas. and S103	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 13:01
S105	100899	"417".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 13:01
S106	0	S105 and (((diaphragm and membrane) near valve) with recess\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 13:04

S107	4	S105 and (((diaphragm and membrane) near valve) and recess\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/09 13:04
S108	2	"5934305".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 15:50
S109	2	"6314990".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 15:51
S110	9	("3039487"   "5100306"   "5110272"   "5209260"   "5558508"   "5738502"   "5769126"   "Re32651").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/17 15:51
S111	334	137/856.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/17 15:54
S112	186	S111 and @ay<="2005"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 16:00
S113	180	S111 and @ay<="2003"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 16:04
S115	4	S113 and hardness and thick\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 16:26
S116	91	S113 and thick\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 16:30
S117	36	("0771327"   "1276478"   "1634949"   "1669889"   "1679012"   "1780121"   "2021085"   "2160401"   "2417246"   "2682280"   "2908287"   "3241748"   "3370786"   "3998571"   "4065237"   "4524806"   "4565507"   "4633825"   "4867650"   "4955797"   "4978285"   "5016669"   "Re32651").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/17 17:27
S118	34	("5213125").URPN.	USPAT	OR	ON	2007/12/17 17:36

S119	19	("20030089409"   "3123096"   "3270771"   "4182355"   "5213125"   "5609476"   "5617897"   "5727594"   "5771935"   "5775887"   "5875819"   "5971723"   "6044862"   "6089272"   "6390130"   "6579075"   "6823891").PN.	US_PGPUB; USPAT; USOCR	OR	ON	2007/12/17 17:48
S121	2	"4712583".pn.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 07:24
S123	3	"2462189".pn.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 07:26
S124	2	"2497906".pn.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 07:26
S125	15	("2497906").URPN.	USPAT	OR	ON	2007/12/18 07:39
S126	1	"5025829".pn.	USPAT	OR	ON	2007/12/18 07:47
S127	2	"5025829".pn.	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 07:47
S128	15	("2497906").URPN.	USPAT	OR	ON	2007/12/18 08:14
S129	20	("5025829").URPN.	USPAT	OR	ON	2007/12/18 08:15
S130	9	("2497906"   "2758609"   "3176712"   "3827456"   "4593720"   "4712583").PN.	US_PGPUB; USPAT; USOCR	OR	ON	2007/12/18 08:16
S131	11	("2467189"   "2497906"   "2758609"   "3190496"   "4143853"   "4355639"   "4493339").PN.	US_PGPUB; USPAT; USOCR	OR	ON	2007/12/18 12:10
S132	71	("4712583").URPN.	USPAT	OR	ON	2007/12/18 12:13
S133	20	("5025829").URPN.	USPAT	OR	ON	2007/12/18 12:21
S135	4	"2462189".pn.	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 12:45

S136	3	"2497906".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 12:46
S137	3	"4141379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 12:46
S138	2	"4593720".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 12:49
S139	2	"5025829".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 12:49
S140	1981	417/559,566,569,571.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 12:54
S141	750	S140 and @ay<= "2003"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 12:54
S142	44	S141 and thick\$4 and hard\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 12:55
S143	725	S141 and valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 12:56
S144	43	S143 and hard\$4 and thick\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 12:56
S145	233	S143 and thick\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 13:43

S146	5	S145 and (stroke near length)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 13:44
S148	2	"20030194337"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:06
S149	1	"1986831".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:37
S150	3	("1986831").URPN.	USPAT	OR	ON	2007/12/18 14:39
S152	8	"2043849".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:40
S153	7	"2109541".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:40
S154	3	"3375972".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:42
S155	2	"4723896".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:44
S156	2	"4524806".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:47
S157	2	"5249939".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:48

S158	2	"5454397".pn.	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:49
S159	2	"5456287".pn.	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:50
S160	2	"5577901".pn.	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:51
S161	3	"2908287".pn.	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:51
S162	100	137/851.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:53
S163	1	S162 and hard\$4 and thick\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 14:54
S164	2	"6033191".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 15:22
S165	372	417/559.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 15:23
S166	188	S165 and valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 15:23
S167	55	S166 and thick\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 15:30

S168	34	S167 and @ay<="2003"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 15:33
S169	466	417/566.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 15:55
S170	203	S169 and valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 15:55
S171	160	S170 and @ay<="2003"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 15:55
S172	1	("3819306").URPN.	USPAT	OR	ON	2007/12/18 16:34
S173	22	("1711803"   "2121549"   "2176691"   "2497906"   "3297260"   "3354830"   "3401719"   "3491700"   "3509907"   "3545897"   "3664770").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/18 16:34
S174	334	137/855.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/18 16:36
S175	353	137/856.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 16:37
S176	297	S175 and valve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 16:37
S177	194	S176 and @ay<="2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 16:37
S178	200	S176 and @ay<="2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 16:38

S179	15	S178 and (thick\$4 and hard\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 16:39
S180	5	S178 and (stroke with length)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 17:28
S181	3	S178 and (stroke with distance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 17:35
S182	2	S178 and (travel with distance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 17:36
S183	122696	"251".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 17:45
S184	33952	S183 and @ay<= "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 17:46
S185	5760	S184 and valve and (pump or compressor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 17:46
S188	32	S185 and (recess and (stroke near length))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 17:50
S189	92	S185 and (diaphragm and hard \$4 and thick\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/18 17:53

S190	33952	"251".clas. and @ay<="2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:14
S191	390	S190 and valve and (elast@4 or flexi\$3) and head and (pump or compressor) and (recess or space)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:16
S192	50	S191 and silicone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:17
S193	898	251/120.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:28
S194	253	251/287.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:31
S195	56	251/287.ccls. and @ay<="2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:31
S196	310	251/299.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:34
S198	3	251/299.ccls. and thick\$4 and hard\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:35
S199	739	251/334,331.ccls. and @ay<="2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:36

S200	82	S199 and valve and thick\$4 and hard\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:37
S201	2	417/483.ccls. and @ay<="2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:51
S202	72	417/483.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:51
S203	1010	417/571.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:53
S204	301	S203 and @ay<="2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:53
S205	18	S204 and thick\$4 and hard\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:53
S206	69	S204 and abut\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 09:58
S207	507	417/572.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 13:30
S208	276	S207 and @ay<="2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 13:30

S209	94	S208 and valve and (pump or compressor)	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 13:30
S210	991	417/569.cds.	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 13:42
S211	253	S210 and @ay<="2003"	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 13:42
S212	46	"417".clas. and ("1.6" and time and thick\$4 and stroke)	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 14:40
S213	26	"417".clas. and ("1.6" and time \$1 and thick\$4 and stroke and (length and distance and space))	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 14:46
S214	40	"417".clas. and ("1.6" and time \$1 and thick\$4 and stroke and (length or distance))	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 15:00
S215	1	"10390396"	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 15:12
S216	2	"20030194337"	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 15:16
S217	2	"5934305".pn.	US-PGPUB; USPAT; USOCP; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 16:20

S218	1	"10565256"	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/19 17:20
S219	1362	valve and fluoroelastomer	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/20 07:04
S220	66	valve and pump and fluoroelastomer and perfluoroelastomer	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/20 07:05
S221	42	S220 and @ay<= "2003"	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/20 07:05
S222	2	"4816339".pn.	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/20 07:12

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